



ALASKA

Aviation System Plan

Alaska's Rural System Performance

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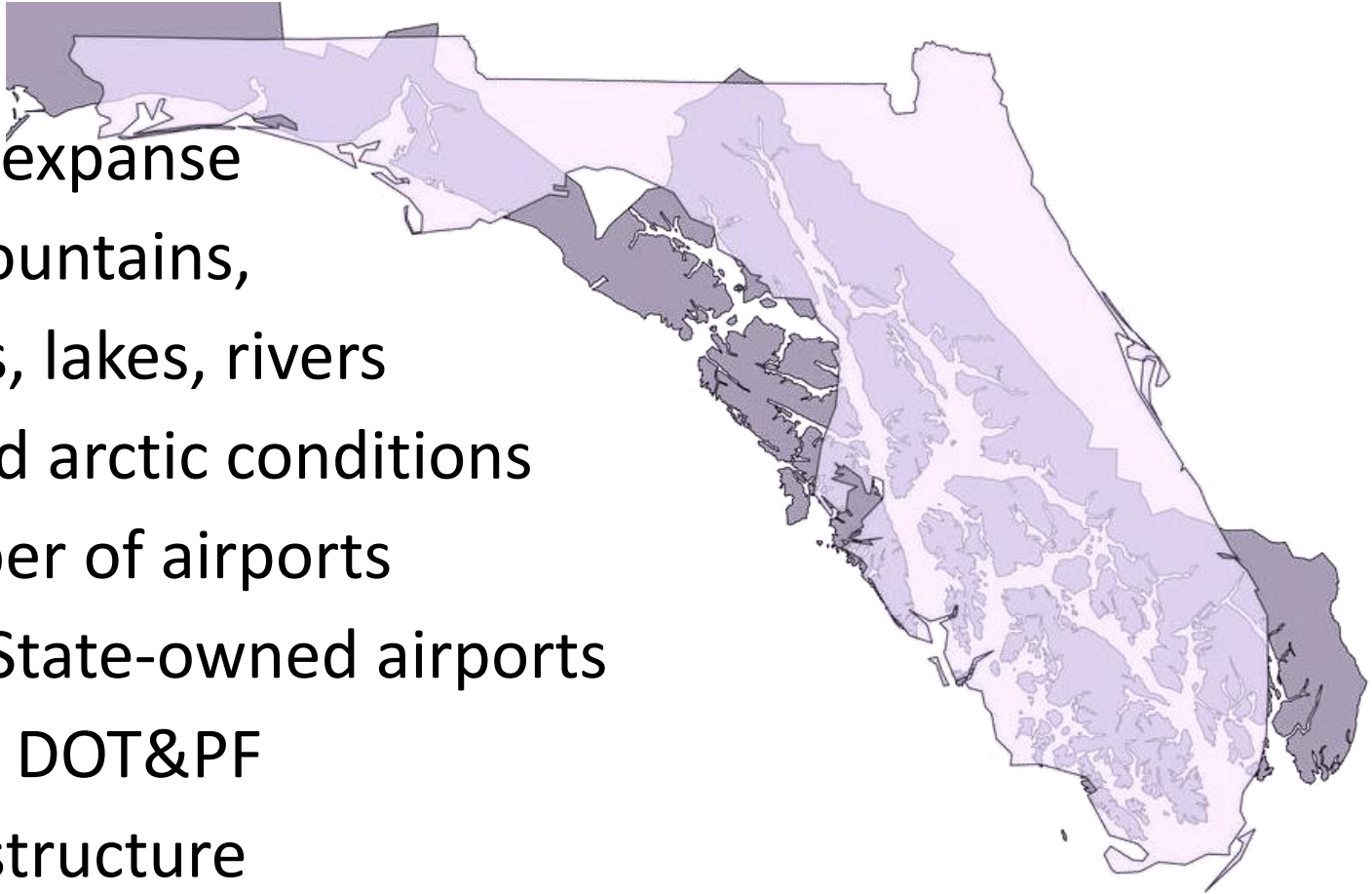


Alaska's Rural Aviation System

- Over 700 registered facilities
- Over 400 public use facilities
- 252 State-owned rural airports
- 82% of communities are not accessible by road
- 3 International airports
- 28 Regional Airports
- 164 Community Airports
 - 146 Off-Road
 - 18 On-Road
- 536 Local Airports

What Makes Alaska Unique?

- Geographic expanse
- Terrain – mountains, wetlands, lakes, rivers
- Weather and arctic conditions
- Sheer number of airports
- Number of State-owned airports
- Structure of DOT&PF
- Young infrastructure
- Lack of roads
- Land ownership



Snapshots of Alaska Airports



Bethel

Snapshots of Alaska Airports

Kodiak



Aviation System Plan

Snapshots of Alaska Airports

Akutan (NEW)



Snapshots of Alaska Airports

Klawock



Snapshots of Alaska Airports

Akiachak (NEW)



Snapshots of Alaska Airports

Lake Hood SPB

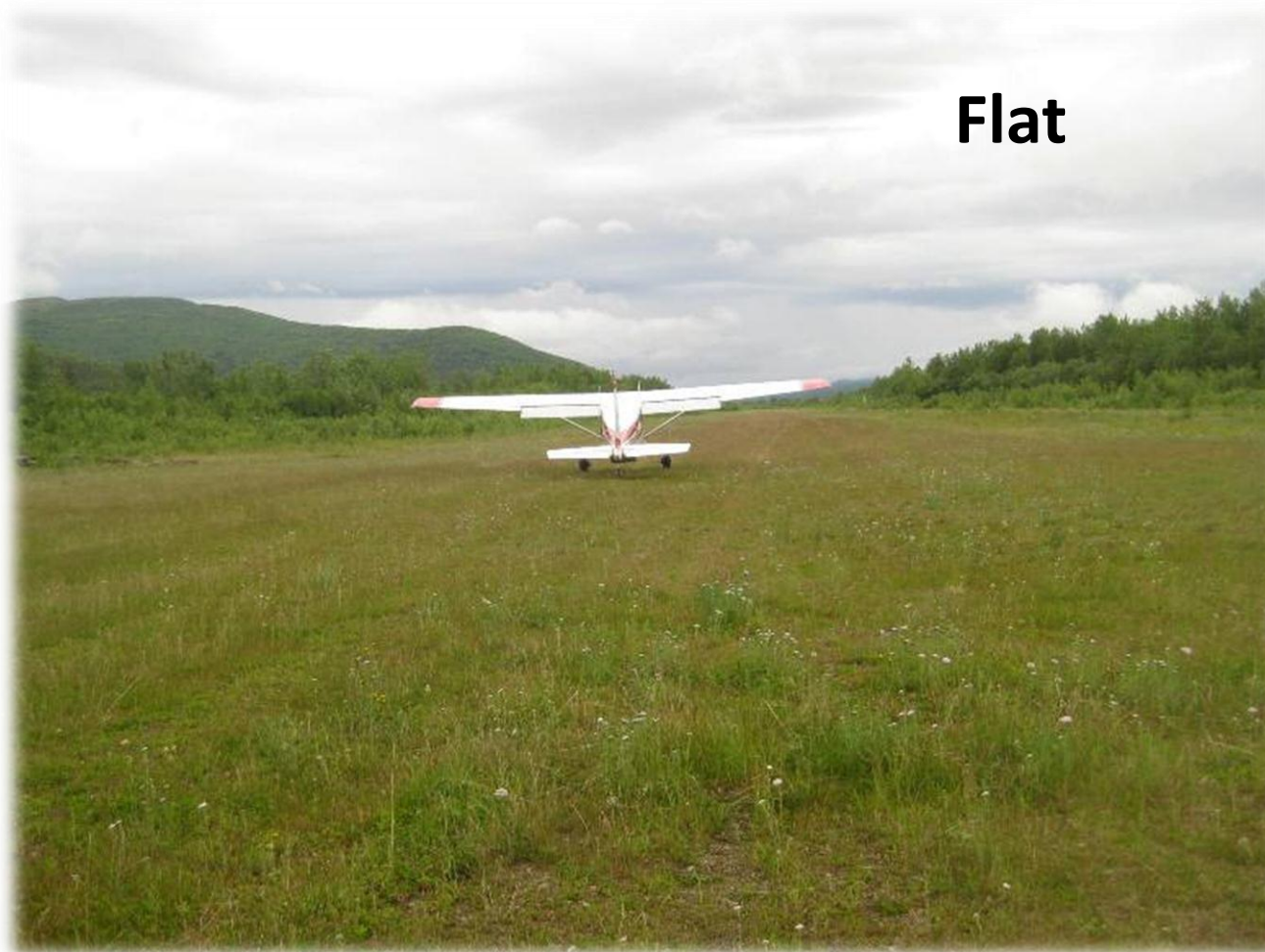


Snapshots of Alaska Airports

Hoonah SPB



Snapshots of Alaska Airports



Flat

Snapshots of Alaska Airports

Ophir



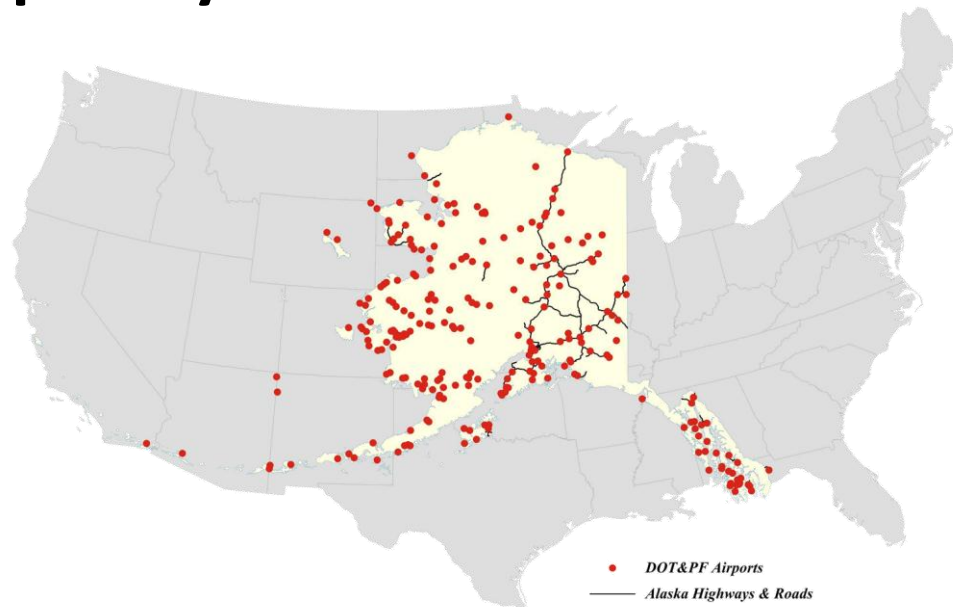
Snapshots of Alaska Airports



Lime Village

Alaska Aviation System Plan Mission

To plan and provide for the safe and efficient movement of people and goods and the delivery of State services through the development, maintenance, operation, and management of Alaska's airport system.



Alaska Aviation System Plan Goals

Five goals support this mission:

1. Safety
2. Service
3. Fiscal Responsibility
4. Communication
5. Management





Implementation vs. Planning

PLAN IMPLEMENTATION

- The development, maintenance, and operation of the airport system
- Measures gauge the health of the system

PLANNING PROCESS

- The continuous planning the DOT&PF does as part of state, regional, and individual airport plans
- Measures gauge status of a continuous planning process



Implementation vs. Planning

PLAN IMPLEMENTATION

- Making appropriate funding determinations
- Developing airports according to plan priorities
- Maintaining infrastructure
- Informing managers
- Monitoring the state of the system
- Providing a feedback mechanism

PLANNING PROCESS

- Establishing policy
- Setting priorities
- Informing decisions
- Conforming to statutes and regulations
- Identifying needs
- Connecting with stakeholders
- Monitoring the state of the system
- Providing a feedback mechanism



Goal: SAFETY

PLAN IMPLEMENTATION

- Develop, operate, and maintain an airport system that contributes to aviation safety.

PLANNING PROCESS

- Incorporate policies and programs to ensure safe airport infrastructure and a safe airport system.



Safety Objectives & Performance Measures

Objectives	Performance Measures
Airports in compliance with design standards	Design Standards Index
Adequate airfield surface condition	PCI minimums "Good" to "Excellent" condition for gravel
Reduce obstructions in approach/departure surfaces	Approach surface clear at a slope not lower than 20:1
Adequate aviation infrastructure	Automated weather reporting systems or cameras
Improve access control	Weather reporting stations and cameras off-airport
Facilitate the preservation of backcountry airports needed for system safety	Visual glide slope indicators

Typical Route Structure



Era Alaska

- Hubs
- Spokes
- “Milk runs”



Design Standard Indices

Design Standards Indices (First Measure)

Airport Class	RSA	OFZ	TSS	RPZ Control	RPZ Land Use	Xwind Coverage	RVZ	Parallel TWY	Comp. Index
Regional	46-50	79-86	71-75	46-50	64-71	79-82	75	79	66-69
Community	67-69	75-88	71-85	61-66	74-81	38-61	95-98	100	72-80
Local NPIAS	43-57	55-77	59-73	41-60	70-86	41-89	91-95	98	60-77

Goal: SERVICE

PLAN IMPLEMENTATION

- Develop, operate, and maintain a reliable aviation system with facilities scaled to meet system user needs.

PLANNING PROCESS

- Guide the development of a reliable aviation system with facilities that meet user needs.



Service Objectives & Performance Measures

Objectives	Performance Measures
Support and promote economic development	Service Index
Serve current and future needs	Current airport planning documents
Provide Alaska residents with access to air transportation system	
Eliminate seasonal closures	Percentage of airports without seasonal closures
Consider other methods by which to connect communities	

Goal: SERVICE





Service Indices

Service Indices (First Measure)

Airport Class	RWY length	RWY Lighting	Parallel TWY	IFR Minima	Lease Lots	Parking	Fuel	Shelter	Public Toilet	Comp. Index
Regional	86-94	75	18	46	57	79	89	93	75	69-71
Community	62	68	n/a	37	93-96	88-90	10	16-19	12-15	55-56

Goal: FISCAL RESPONSIBILITY

PLAN IMPLEMENTATION

- Develop, operate, and maintain airport facilities and services in a cost effective and sustainable way.

PLANNING PROCESS

- Provide responsible asset management and efficient allocation of limited resources.



Fiscal Responsibility Objectives & Performance Measures

Objectives	Performance Measures
Adequately fund management, operation, and maintenance of airports	Amount of AIP funding, funding from other sources, funding for O&M
Infrastructure investments that meet needs and support state/local economy	Short-term needs met by spending plan
Advance system goals and objectives, lower life cycle costs, maximize economic benefit	Ensure prioritization system advances goals and objectives
Consider cost effectiveness to users	Consider air carriers, airport owners, and airport users in cost effectiveness evaluation
Recommend NPIAS additions	All International, Regional, and Community airports in the NPIAS
Improve management of AIP grants	Reduction in average time AIP grant is open
Increase airport revenue and funding	Ratio of revenue vs. expenses, number of land use agreements



Goal: COMMUNICATION

PLAN IMPLEMENTATION

- Provide opportunities for public involvement to ensure effective communications regarding aviation system needs, user needs, and airport development, maintenance, and operations.

PLANNING PROCESS

- Engage in early, clear, and continuous public involvement to ensure the department fully understands aviation issues and needs, and the aviation community understands departmental actions and constraints.

Communication Objectives & Performance Measures

Objectives	Performance Measures
Public participation in capital improvement programming, project development, and ongoing airport operations	Effective public outreach in planning and development activities
Timely and effective interdepartmental coordination	Has interdepartmental and agency coordination been timely and effective?



Goal: MANAGEMENT

PLAN IMPLEMENTATION

- Effectively implement system plan policies and guidance for management, planning, design, maintenance, and operation of aviation facilities.

PLANNING PROCESS

- Advance policies for management, planning, design, maintenance, and operation of aviation facilities.

Management Objectives & Performance Measures

Objectives	Performance Measures
Comply with federal, state, and local regs	Reduction in Part 139 and 5010 inspection, grant assurance problems
Meet regularly with the FAA	Percentages of airports meeting land use compatibility and wildlife goals
Promote aviation safety education	Number of aviation safety events hosted/participated in
Explore transfer of airport ownership, joint use of military/civilian airfields	
Coordinate with FAA and military on military airspace and training activities	
Ensure airport staff are trained	Amount spent training personnel
Ensure policies and procedures are consistent with system goals and objectives	Have aviation-related policies and procedures been reviewed in this context?



Questions?



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